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# Safety Data Sheet

according to WHS Regulations

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## 1 Identification

**Product Name:** PY SPRAY AEROSOL INSECTICIDE

**Other Means of Identification:** Mixture

**Recommended Use of the Chemical and Restriction on Use:** Aerosol insecticide

**Details of Manufacturer or Importer:**

C.Rudduck Pty Ltd  
2/247 Ingles Street  
Port Melbourne VIC 3207

**Phone Number:** 03 9676 4444

**Emergency telephone number:** 0418 355 009

## 2 Hazard(s) Identification

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



flame

Aerosol 1 H222 Extremely flammable aerosol.



health hazard

Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Aquatic Acute 2 H401 Toxic to aquatic life.

**Signal Word** Danger

**Hazard Statements**

H222 Extremely flammable aerosol.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P391 Collect spillage.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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P501 Dispose of contents/container in accordance with local/regional/national regulations.

## 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.

<b>Hazardous Components:</b>		
CAS: 68475-59-2	Alkanes, C3-4 ⚠ Flammable Gases 1, H220; ⚠ Press. Gas C, H280	>60%
CAS: 93924-07-3	Alkanes, C10-14 ⚠ Aspiration Hazard 1, H304	30 - 60%
CAS: 51-03-6	Piperonyl butoxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Flammable Liquids 4, H227	5%
CAS: 121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Toxicity (Oral) 4, H302; Acute Toxicity (Dermal) 4, H312; Acute Toxicity (Inhalation) 4, H332	1%

**Additional information:**

The following note applies to alkanes, C3-4 (CAS No. 68475-59-2):

The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0.1 % w/w 1,3-butadiene (CAS No 106-99-0)

## 4 First Aid Measures

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**Ingestion:**

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

**Information for Doctor:**

Treat symptomatically. Exposure may increase myocardial irritability. No specific antidote; avoid epinephrine if possible. May cause eye irritation. If cornea is burned, instill antibiotic steroid preparation frequently. Increase in carboxyhaemoglobin may result. Never give adrenalin to victim of overexposure. Alcohol will increase toxic effect. Causes central nervous system depression.

**Symptoms Caused by Exposure:**

Inhalation: May cause respiratory irritation with coughing, sneezing, headache and even nausea.

Skin Contact: May cause skin irritation.

Eye Contact: May cause severe irritation to the eye causing pronounced inflammation.

Ingestion: May cause irritation of mouth and throat, abdominal pain, nausea and vomiting, dizziness,

headache, disorientation, mental confusion and slurred speech. May be fatal if swallowed and enters airways.

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## 5 Fire Fighting Measures

**Suitable Extinguishing Media:**

Carbon dioxide, dry chemical powder or regular dry foam. Sand or earth may be used for small fires.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include carbon monoxide, toxic chlorine gas, toxic and irritating hydrogen chloride.

Product is extremely flammable. Vapours may travel considerable distances to a source of ignition where they can ignite, flashback, or explode.

Containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

## 6 Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear an approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Shut off all possible sources of ignition and increase ventilation. If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material.

Collect the spilled material and place into a container outdoors, away from ignition sources, until pressure has dissipated. Ensure adequate ventilation.

## 7 Handling and Storage

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours.

Use in a well-ventilated area. DO NOT incinerate or puncture aerosol cans.

Food, beverages and tobacco products should not be stored or consumed where this material is in use.

Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Protect from heat, sparks, open flames and hot surfaces. DO NOT incinerate or puncture aerosol cans. Avoid physical damage to containers. Check regularly for spills and leaks. Store at temperatures below 40° C. Keep away from strong oxidising agents.

## 8 Exposure Controls and Personal Protection

**Exposure Standards:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

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**Respiratory Protection:**

Respiratory protection is not necessary if the ventilation is adequate. Avoid working in and breathing spray mist.

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Impermeable gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Supplied as an aerosol pack. Contents under pressure. Contains highly flammable hydrocarbon propellant. Aerosol pack has metered valve.
<b>Colour:</b>	Clear golden
<b>Odour:</b>	Alcoholic
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	No information available
<b>Melting point/freezing point:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	-18 °C
<b>Flammability:</b>	Extremely flammable aerosol
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	1.4 Vol %
<b>Upper:</b>	7.6 Vol %
<b>Vapour Pressure:</b>	No information available
<b>Relative Density:</b>	No information available
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Miscible
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>Viscosity:</b>	No information available

### 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** Heat, sparks, open flames and hot surfaces.

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**Incompatible Materials:** Strong oxidising agents.**Hazardous Decomposition Products:**

Could evolve carbon monoxide, toxic chlorine gas, toxic and irritating hydrogen chloride, and highly toxic and irritating phosgene on decomposition.

### 11 Toxicological Information

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****CAS: 51-03-6 Piperonyl butoxide**

Oral	LD <sub>50</sub>	6150 mg/kg (rat)
Dermal	LD <sub>50</sub>	>7950 mg/kg (rabbit)
Inhalation	LC <sub>50</sub> /4 h	>5900 mg/m <sup>3</sup> (rat)

**Acute Health Effects****Inhalation:** May cause respiratory irritation with coughing, sneezing, headache and even nausea.**Skin:** May cause skin irritation.**Eye:** May cause severe irritation to the eye causing pronounced inflammation.**Ingestion:**

May cause irritation of mouth and throat, abdominal pain, nausea and vomiting, dizziness, headache, disorientation, mental confusion and slurred speech. May be fatal if swallowed and enters airways.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:**

Piperonyl butoxide is classified by IARC as a Group 3 - Not classifiable as to its carcinogenicity to humans.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** May be fatal if swallowed and enters airways.**Chronic Health Effects:**

Repeated or prolonged exposure to irritants may cause conjunctivitis.

The material may cause skin irritation after prolonged or repeated exposure and may cause on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:**

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The Australian Acceptable Daily Intake (ADI) for piperonyl butoxide for a human is 0.1 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 16 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

The Australian ADI for pyrethrins (pyrethrum extracts) for a human is 0.04 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 4 mg/kg/day.

(Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2018).

### 12 Ecological Information

**Ecotoxicity:****Aquatic toxicity:**

Toxic to aquatic life with long lasting effects.

**CAS: 51-03-6 Piperonyl butoxide**

LD <sub>50</sub>	>2,250 mg/kg (bobwhite quail)
LC <sub>50</sub> /96 h	5.37 ppm (bluegill) 6.12 ppm (rainbow trout)
LC <sub>50</sub> /48 h	0.51 ppm (daphnia)
LC <sub>50</sub>	>5,620 ppm (bobwhite quail) (5 day dietary) >5,620 ppm (mallard) (5 day dietary)

**Persistence and Degradability:** No further relevant information available.

**Bioaccumulative Potential:** No further relevant information available.

**Mobility in Soil:** No further relevant information available.

**Other adverse effects:** No further relevant information available.

### 13 Disposal Considerations

**Disposal Methods and Containers:**

Dispose according to applicable local and state government regulations.  
DO NOT incinerate or puncture aerosol cans.

**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

### 14 Transport Information

<b>UN Number</b>	UN1950
<b>ADG, IMDG, IATA</b>	
<b>Proper Shipping Name</b>	AEROSOLS
<b>ADG, IMDG, IATA</b>	
<b>Dangerous Goods Class</b>	
<b>ADG Class:</b>	2.1
<b>Packing Group:</b>	Not applicable
<b>EMS Number:</b>	F-D,S-U
<b>Hazchem Code:</b>	Not applicable
<b>Special Provisions:</b>	63, 190, 277, 327, 344, 381
<b>Limited Quantities:</b>	1 L

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**Packagings & IBCs - Packing Instruction:** P207, LP200**Packagings & IBCs - Special Packing Provisions:** PP87, L2

## 15 Regulatory Information

Australian Inventory of Chemical Substances:	
CAS: 51-03-6	Piperonyl butoxide
CAS: 121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate
CAS: 93924-07-3	Alkanes, C10-14
CAS: 68475-59-2	Alkanes, C3-4

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**  
Not Scheduled.

## 16 Other Information

**Date of Preparation or Last Revision:** 09.05.2018**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC<sub>50</sub>: Lethal concentration, 50 percentLD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Flammable Gases 1: Flammable gases – Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas C: Gases under pressure – Compressed gas

Flammable Liquids 4: Flammable liquids – Category 4

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Aspiration Hazard 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Acute 2: Hazardous to the aquatic environment, short-term (Acute). Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016"

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